

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SITE CLEANUP ORDER NUMBER 91-018

AMENDMENT OF SITE CLEANUP REQUIREMENTS, NO. 89-115, FOR:

LYNCH CIRCUITS, INC.  
and  
SILICONIX, INC.  
1140 WEST EVELYN AVENUE  
SUNNYVALE  
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. The Board adopted Site Cleanup Order 89-115 in June, 1989, for the site located at 1140 West Evelyn Avenue in Sunnyvale. Property access problems had previously resulted in delays of offsite pollutant characterization work and SCO Amendment 90-090 was adopted in June, 1990. SCO 90-090 modified the SCO 89-115 task schedule of Provision C.3.e. and extended the dischargers time schedule for offsite pollutant characterization work.
2. Remedial investigation work performed both on- and offsite since July, 1989, has revealed the presence of chlorinated VOCs in the soil and groundwater. Recent work has focussed on characterizing the offsite component of the pollutant plume. Offsite characterization work includes the installation of five additional monitoring wells. Two pairs of shallow and deep wells and one shallow well were installed in June and July, 1990, downgradient on Santa Clara County property. The wells are located downgradient from the northerly site property boundary along West Evelyn Boulevard.
3. Eight onsite and five offsite monitoring wells screen the shallow water-bearing zone between 50 and 65 feet deep and the deeper water-bearing zone between 88 and 103 feet below the surface. The A-zone 55 feet below the surface is a 20 foot thick zone of poor- to well-graded sand and gravel overlain by silt and clay interbedded with silty and poorly-graded fine sands and clayey gravel.

The B-zone is separated from the A-zone by greenish-gray silty clays and clay to depths between 80 and 88 feet below the surface. A coarse sand and gravel unit, the B-zone, is encountered between 99 and 105 feet below the surface.

Groundwater pollution is extant in both the A- and B-zones. Onsite, pollutants such as TCE and DCE species are found at higher concentrations in the A-zone. Offsite, TCE and DCE are found at higher concentrations in the B-zone than in the A-zone. Groundwater flow in the shallow and deep water-bearing zones is consistently north to northwesterly.

4. The current owner has expeditiously pursued site investigations and pollutant characterization. SCO 90-090 modified SCO 89-115 Task C.3.e., requirements for submittal of the remedial investigation report, by splitting the task into two components, Tasks C.3.e.(i) and C.3.e.(ii) for onsite and offsite pollutant characterization, respectively. The onsite work results were submitted according to the SCO 89-115 schedule. Offsite work results were reported pursuant to Task C.3.e.(ii).
5. The dischargers cannot at this time meet obligations in the SCO 89-115 task schedule due to the widening scope of offsite plume characterization work. This Order amendment modifies the task schedule and includes additional tasks for further pollutant characterization. In lieu of enforcement actions for late or incomplete reports, the task schedules have been modified and now include new Provisions C.3.f., C.3.g., and C.3.h. and modified Provisions C.3.i., C.3.j. and C.3.k.
6. This action is an order to enforce the laws and regulations administered by the Board. This action is categorically exempt from the provisions of the CEQA pursuant to Section 15321 of the Resources Agency Guidelines.
7. The Board has notified the dischargers and interested agencies and persons of its intent under California Water Code Section 13304 to prescribe Site Cleanup Requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.
8. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the dischargers, their agents, successors, or assigns shall cleanup and abate the effects described in the above findings as follows:

**AMENDMENTS OF ORDER NO. 89-115 AND 90-090**

Provision C.3. shall be modified to the following:

**NEW AND AMENDED TASKS TO SCO 89-115**

**f.    TASK:            PROPOSAL FOR FURTHER SITE INVESTIGATIONS**

Submit a technical report acceptable to the Executive Officer which contains a plan for further remedial investigations. The plan shall describe methodology and rationale for (1) installing additional groundwater monitoring wells to further assess the extent of volatile organic chemicals (VOCs) in offsite areas, (2) hydraulic testing of selected onsite wells to provide data to design onsite groundwater interim remedial actions, and (3) pressure testing of selected onsite wells to provide data to design onsite vadose-zone interim remedial actions.

**COMPLETION DATE:            Submitted for review January 15, 1991**

**g.    TASK:            REPORT OF FURTHER SITE INVESTIGATIONS**

Submit a technical report acceptable to the Executive Officer evaluating and presenting the results of the further investigation referred to in Task C.3.f. Additional work is necessary to further assess the extent of chemically affected groundwater and may include installation and sampling of monitoring wells and the testing of selected groundwater and vapor wells to provide data for interim remedial action designs.

**COMPLETION DATE:            June 15, 1991**

**h.    TASK:            EVALUATION AND PROPOSALS FOR INTERIM REMEDIAL ACTIONS**

Submit a technical report acceptable to the Executive Officer that contains an evaluation of proposals for interim remedial actions, including all proposed interim remedial actions and an implementation schedule. This report shall evaluate identified chemically affected soils and groundwater and the need and alternatives for 1) interim cleanup of polluted soils, 2) control or containment of polluted groundwater, or 3) pilot or treatability studies for remedial actions.

The interim remedial action plan shall include a completed NPDES permit application to discharge to surface water, if such a discharge is an element of the

plan. the completed NPDES permit application will include an evaluation of the feasibility of water reuse, according to RWQCB Resolution 88-160, including (1) reclamation of treated groundwater, which can include reinjection or use of water for irrigation, industry or other beneficial purpose; and/or (2) discharge to a public owned treatment works (POTW).

COMPLETION DATE: September 15, 1991

- i. TASK: EVALUATION OF INSTALLED INTERIM REMEDIAL ACTIONS (Revised completion date from SCO 89-115, Provision C.3.f)

COMPLETION DATE: 180 days after implementation of interim remedial actions.

- j. TASK: FEASIBILITY STUDY (Revised completion date from SCO 89-115, Provision C.3.g.)

COMPLETION DATE: 180 days after completion of further remedial investigations.

- k. TASK: FINAL SITE CLEANUP IMPLEMENTATION REPORT (Revised Provision C.3.h., SCO Amendment 90-090)

COMPLETION DATE: 360 days after approval of the Feasibility Study.

9. This Order Amendment shall also modify reporting requirements of SCO 89-115 Provision C.11. Reporting requirements for the dischargers shall be modified as follows:

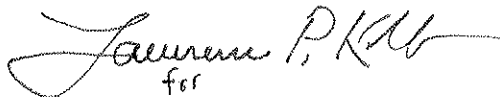
A. Copies of all correspondence, reports, and documents pertaining to compliance with the Prohibitions, Specifications and Provisions of this Order shall be provided to the following agencies:

1. California Regional Water Quality Control Board (Steven R. Ritchie)
2. Santa Clara Valley Water District (Tom Iwamura)

B. The dischargers shall provide copies of cover letters or transmittal letters, title page, table of contents and summaries of above compliance reports - except for annual summary reports, final remedial action proposals and the final selected remedial actions shall be submitted in full - to the following agencies:

3. Santa Clara County Health Department (Lee Esquibel)
  4. City of Sunnyvale (Jay Maille)
  5. State Department of Health Services/TSCD (Howard Hatayama)
10. This Order amendment rescinds the monthly technical reporting requirements of SCO 89-115, Provision C.6. Technical progress reports on compliance with SCO 89-115, Provision C.7. will continue to be submitted on a quarterly basis.
- Events or obstacles which may threaten compliance with the schedule of this Order and, in the event of non-compliance with Provision C.2. or any other Specification or Provision of this Order, written notification shall be provided which clarifies the reasons for non-compliance, what actions are being taken to overcome these obstacles and propose specific measures and a schedule to achieve compliance. This written notification shall identify work not completed that was projected for completion, and shall identify the impact of non-compliance on achieving compliance with the remaining requirements of this Order.
11. This Board action amends Site Cleanup Order 89-115 and Site Cleanup Order Amendment 90-090.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on February 20, 1991.



for  
Steven R. Ritchie  
EXECUTIVE OFFICER

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